

# MATERIAL SAFETY DATA SHEET

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## I. IDENTIFICATION

CHEMICAL FAMILY: Anatomic Embalming Chemical

**TRADE NAME:** NYU ANATOMIC FLUID

## II. HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	%	OSHA PEL	AGCIH TLV
			TWA;STEL(15)	TWA;STEL(15)
Formaldehyde	50-00-0	5.6	.75ppm; 2ppm	0.3ppm; ceiling <sup>(1)</sup> A2 <sup>(2)</sup>
Phenol	108-95-2	27.0	5ppm;N/E(Skin)	5ppm;N/E(Skin)
Ethylene Glycol	107-21-1	33.0	50 ppm Ceiling	
Methanol	67-56-1	33.0	200ppm; 250ppm Skin	200ppm; 250ppm Skin

(1) Ceiling – The concentration that should not be exceeded during the working day.

(2) Suspected human carcinogen.

## III. PHYSICAL DATA

BOILING POINT (At 760mm Hg) (°F)	186	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	0.980 – 0.982
VAPOR PRESSURE (mm Hg)	92.0	MELTING POINT °F	N/A
VAPOR DENSITY (Air=1)	>1	EVAPORATION RATE (Butyl Acetate=1)	<1
SOLUBILITY IN WATER	Complete	PERCENT VOLATILE	100
APPEARANCE & ODOR	Clear colorless liquid. Characteristic Odor		

## IV. FIRE AND EXPLOSION DATA

## FLAMMABLE LIMITS IN AIR

FLASH POINT °F (Tag Closed Cup): <100

Lower: 7.0%

Upper: 73.0%

Extinguishing Media: Dry Chemical; Alcohol Foam; Water Spray

## V. HEALTH HAZARD DATA

### CHRONIC EFFECTS:

**MUTAGENICITY:** In vitro, formaldehyde is mutagenic (mutagenic activity in E. coli, Pseudomonas fluorescens, and Saccharomyces cerevisiae). In vivo, no information.

**CARCINOGENICITY:** Formaldehyde is carcinogenic to animals (nasal cancer, lifetime inhalation study, rats). Listed as an experimental animal carcinogen (IARC, NTP) and probable human carcinogen (IARC).

**REPRODUCTION:** Formaldehyde showed no evidence of reproductive effects in animal studies (mice, rats, dogs).

**OTHER:** Formaldehyde - no evidence of effects on liver, kidneys, nervous system or blood in 180 day studies of rats, monkeys, or hamsters.

**VI. HEALTH HAZARD DATA**

**EYE CONTACT:** Vapor causes severe irritation and tearing. Contact with liquid causes severe burns.

**SKIN CONTACT:** Liquid causes drying, cracking and scaling. Repeated contact causes hardening of the skin and may cause dermatitis and sensitization.

**INHALATION:** Causes irritation to nose, throat and respiratory tract. Bronchopneumonia and edema possible from breathing high concentrations.

**INGESTION:** May be fatal if swallowed. Severe inflammation of mouth, throat or stomach. Blurring of vision or blindness may occur.

HMIS RATINGS	
HEALTH:	2
FIRE:	1
REACTIVITY:	0
SPECIAL:	0

**EMERGENCY AND FIRST AID:**

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**SKIN CONTACT:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

**INHALATION:** Remove to fresh air. If not breathing give artificial respiration, then oxygen if necessary. Call a physician.

**INGESTION:** Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Immediately call a physician.

**VII. SPILL AND DISPOSAL INFORMATION**

**SPILL OR LEAK:** Ventilate area thoroughly - avoid breathing of vapor. Absorb liquid with vermiculite or dry earth. Flush area with plenty of water.

**WASTE DISPOSAL:** Dispose of residue in compliance with Federal, State and local regulations.

**VIII. REACTIVITY DATA: STABILITY: Stable---Yes Unstable--No**

Materials and conditions to avoid: Caustics and strong oxidizing agents. High Temperatures.

Hazardous Polymerization: May Occur--No **Will Not Occur--X**

Hazardous Decomposition Products: Hydrogen, Formaldehyde, Carbon Monoxide, Carbon Dioxide.

**IX. PROTECTION INFORMATION:**

**Respiratory Protection:** Ventilation should be adequate to keep exposure limits below the Action Level (CFR 29 1910.1048) of 0.50 ppm. If limits are exceeded, a full-face NIOSH approved respirator should be used.

**Ventilation:** Local exhaust should be adequate to control exposure.

**Eye Protection:** Gas proof Goggles and Face Shield recommended.

**Protective Gloves:** Neoprene, Butyl or Polyvinyl Gloves.

**X. SPECIAL PRECAUTIONS:**

Keep containers closed. Store in cool, well-ventilated area away from open flame. Do not breathe vapor. Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handling.

**XI. This mixture contains toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.**

Formaldehyde	CAS number	050-00-0	Reportable Quantity	100 pounds
Methanol	CAS number	067-56-1	Reportable Quantity	5000 pounds
Ethylene Glycol	CAS number	107-21-1	Reportable Quantity	5000 pounds
Phenol	CAS number	108-95-2	Reportable Quantity	1000 pounds

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DISCONTINUED